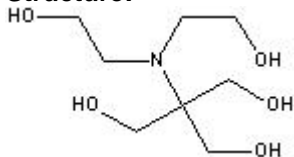


TECHNICAL INFORMATION

Catalog Number: 101038, 194546

bis-Tris

Structure:



Molecular Formula: C₈H₁₉NO₅

Molecular Weight: 209.2

CAS # : 6976-37-0

Synonym: bis(2-hydroxymethyl)imino-tris (hydroxymethyl) methane;
2-bis(2-Hydroxyethyl)amino-2-(hydroxymethyl)-1,3-propandiol; 2,2-bis(Hydroxymethyl)-2,2',2''-nitrilotriethanol

Physical Appearance: White crystalline powder

Solubility: Soluble in water (1 M - clear, colorless solution). For sterilization of aqueous solutions, MP Biomedicals recommends sterile filtration with a 0.2 um filter; however, the product is typically stable for autoclaving.

pKa: 6.5 at 25°C; DpK/DT = -0.03⁽¹⁾

EM (water):²

259 nm = 10

277 nm = 10

Useful pH Range: 5.8-7.2

Description: A zwitterionic buffer; an amine buffer similar to Tris. Hydrochloric acid can be used to adjust pH for a bis-Tris buffer to the desired pH.

Availability:

Catalog Number	Description	Size
101038	bis-Tris	25 g 100 g 500 g 1 kg
194546	bis-Tris, cell culture reagent	25 g 100 g 500 g 1 kg

References:

- *Methods in Enzymology*, v. **182**, 27-28 (1992).
- Lewis, J.C., *Analytical Biochemistry*, v. **14**, 495 (1986).